

What is claimed is:

1. A door apparatus, comprising:

a door movable in opposite opening and closing directions;

a door driving device that applies a thrust to the door to move the door in the opening and closing directions;

a lock device for performing a locking operation and an unlocking operation on the door; and

a control apparatus for controlling the door driving device and the lock device,

wherein, if the control apparatus controls the lock device to perform the unlocking operation and the lock device is determined to be still in a locked state after a set time, the control apparatus again controls the lock device to perform the unlocking operation while controlling the door driving device to apply the thrust to the door to move the door in either the opening direction or the closing direction.

2. A door apparatus, comprising:

a door movable in opposite opening and closing directions;

a door driving device that applies a thrust to the door to move the door in the opening and closing directions;

a lock device for performing a locking operation and an unlocking operation on the door; and

a control apparatus for controlling the door driving device and the lock device,

wherein, if the control apparatus controls the lock device to perform

the unlocking operation and the lock device thereafter is determined to be still in a locked state after a set time, the control apparatus controls the lock device to perform the unlocking operation while controlling the door driving device to apply the thrust to the door to move the door in both the opening direction and the closing direction.

3. A door apparatus according to claim 2, wherein the control apparatus controls the door driving device to output alternately a thrust in the opening direction and a thrust in the closing direction, and controls the lock device to perform the unlocking operation in synchrony with a timing of a changeover between these opening direction and closing direction thrusts.

4. A door apparatus according to claim 1, wherein the control apparatus controls the door driving device to output alternately a large thrust and a small thrust in a same direction, and controls the lock device to perform the unlocking operation in synchrony with a timing of a changeover between the large and small thrusts.